

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A remote control device with displays and ball switches, comprising:

- a. a case 2;
- b. ~~a display section 3 situated at upper section of the front face of said case 2;~~
- c. a machine selection wheel switch section 6 ~~which is situated at inside of~~ said case 2 ~~and~~, some parts of the machine selection wheel switch section are being exposed through the front face of said case and ~~contains~~ containing a first wheel operation section [[4]], a first click encoder 5 and a first push sensor 4a;
- d. a menu ~~function~~ selection ball wheel switch section 9 which contains a second wheel operation section 41, a second click encoder 8 and a second push sensor 7a;
- e. a function selection ball switch section 11 ~~which is situated at inside of said~~ case 2 ~~and~~, some parts of the function selection ball switch section are being exposed through the front face of said case;
- f. a CPU 12 which inputs, outputs and controls ~~the electric~~ electrical signals generated by rotation of said machine selection wheel switch section 6, menu selection wheel switch section 9 and function selection ball switch section 11;

a3
cont

- g- a signal transmitting section ~~15 in connection with~~ being connected to an output of the CPU, and a memory ~~13 which has built in~~ having built-in machine, menu and function selection ~~program programs~~; and
- h- a click sound generation section ~~17 with~~ having a speaker ~~16~~; and
- a display section situated at an upper section of said case, the display section displaying information that is responsive to the rotation of the machine selection wheel switch section, the menu selection wheel section and the function selection ball switch section.

2. (Currently Amended) The A remote control device ~~as claimed in Claim~~

a³ cont⁴ with displays and ball switches, comprising:

a case;

a display section situated at upper section of the front face of said case;

a machine selection wheel switch section situated inside of said case, some parts of the machine selection wheel switch section being exposed through the front face of said case and containing a first wheel operation section, a first click encoder and a first push sensor;

a menu selection wheel switch section which contains a second wheel operation section, a second click encoder and a second push sensor;

a function selection ball switch section situated inside of said case, some parts of the function selection ball switch section being exposed through the front face of said case,

wherein said function selection ball switch section ~~is further comprising~~ comprises:

- a. a PCB ~~28 further comprises~~ having a through-hole ~~28a~~ and a hinge section ~~28b~~ at one side;
- b. first to fourth fixtures ~~30-33~~ located diagonally on ~~the~~ an upper face of the PCB ~~28~~;
- c. third to sixth click encoders ~~34-37~~ facing said first to fourth fixtures ~~30-33~~;
- d. an operation section ~~38~~ located between said first to fourth fixtures ~~30-33~~ and said third to sixth click encoders ~~34-37~~ and further ~~comprises~~ comprising a plurality of rotational axis axes ~~38a-38d~~;
- e. a ball ~~39~~ situated on the a through-hole ~~28a~~ while and being in contact with ~~the~~ an outer periphery of said rotational axis axes ~~38a-38d~~; and
- f. a third push sensor ~~40~~ located ~~the~~ on a bottom face of the PCB ~~28~~ which is and being switched on/off by a support plate ~~40e~~ that further

A3
cont

comprises a stopper 40b with a support ball 40a which supports said ball 39;

a CPU which inputs, outputs and controls electrical signals generated by rotation of said machine selection wheel switch section, menu selection wheel switch section and function selection ball switch section;

a signal transmitting section being connected to an output of the CPU, and
a memory having built-in machine, menu and function selection programs; and
a click sound generation section having a speaker.

A3 cont
3. (Currently Amended) The A remote control device ~~as claimed in Claim 1~~ with displays and ball switches, comprising:

a case;

a display section situated at upper section of the front face of said case;

a machine selection wheel switch section situated inside of said case, some parts of the machine selection wheel switch section being exposed through the front face of said case and containing a first wheel operation section, a first click encoder and a first push sensor;

a menu selection wheel switch section which contains a second wheel operation section, a second click encoder and a second push sensor;

a function selection ball switch section situated inside of said case, some parts of the function selection ball switch section being exposed through the front face of said case, wherein said display section 3 further comprising comprises:

- a. a first display area 20 which displays a program name and a machine name;
- b. a second display area 23 which displays a program list and a menu;
- c. a third display area 24 which displays ~~the~~ a function of said function selection ball switch section 11; and
- d. a fourth display area 25 which displays ~~the~~ a condition of the operating remote control device;

a CPU which inputs, outputs and controls electrical signals generated by rotation of said machine selection wheel switch section, menu selection wheel switch section and function selection ball switch section;

a signal transmitting section being connected to an output of the CPU, and a memory having built-in machine, menu and function selection programs; and a click sound generation section having a speaker.

4. (Currently Amended) The remote control device as claimed in ~~Claim~~ claim 3, wherein said machine name 18 and program name 19 in said first display area 20 can be scrolled up/down according to the rotation direction of said

machine selection wheel switch section 6 and, a matching number of arrows corresponding to the number of hidden machine name 19 and program name 18 are displayed at the top and bottom end of the display and, the selected part in the middle is indicated by a shaded block and the menu list of selected machines and programs are displayed in the second display area 23.

*A3
cont*

5. (Currently Amended) The remote control device as claimed in ~~Claim~~ claim 3, wherein the menu name in said second display area 23 can be scrolled up/down according to the rotation direction of the menu selection wheel switch section 9 and a matching number of arrows corresponding to the number of hidden menu name is displayed at the top and bottom end of the display and, the function of the function selection ball switch section 11 with respect to the selected menu is displayed in third display area 24 at the same time.

6. (Currently Amended) The remote control device as claimed in ~~Claim~~ claim 3, wherein in connection with said first display area 20, either menu or program of the selected machine is displayed in the second display area 23.

7. (Currently Amended) The remote control device as claimed in ~~Claim~~ claim 3, wherein in connection with said second display area 23, the function of

Serial No. 09/931,407
New Docket No. 4289-0103P
Old Docket No. 2669-0111P
Group Art Unit 2675
Page 11

*A3
concl* said function selection ball switch section ~~11~~ of the selected menu is displayed in
the third display area 24.
